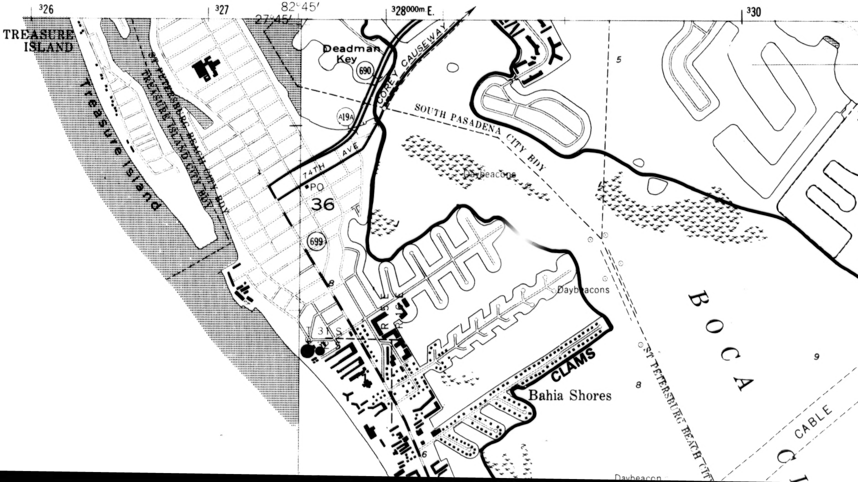
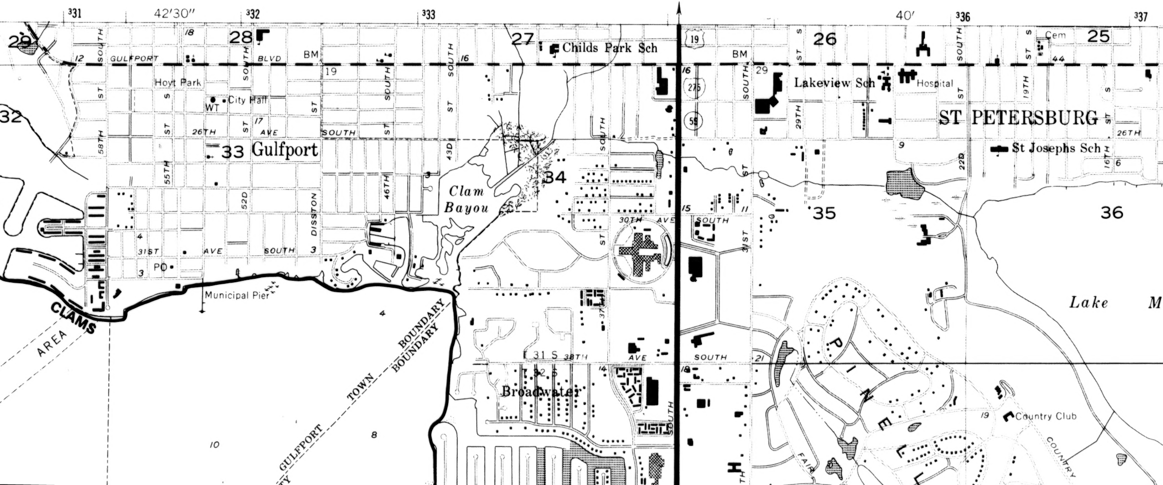
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

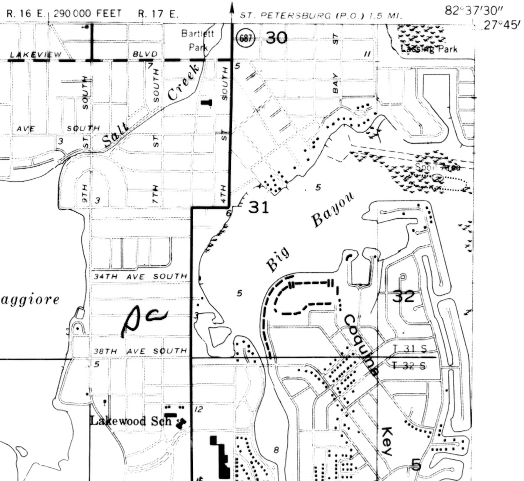

326
327
82°45′
27°45′
328000m E.
330
TREASURE ISLAND
Treasure Island
ST PETERSBURG BEACH CITY BDY
TREASURE ISLAND CITY BDY
Deadman Key
690
COREY CAUSEWAY
SOUTH PASADENA CITY BDY
A19A
74TH AVE
PO
36
699
Daybeacons
Daybeacons
5
8
8
9
6
CLAMS
Bahia Shores
ST PETERSBURG BEACH CITY
BOCA
CABLE
Daybeacon


331
42′30″
332
333
336
40′
337
29
28
27
Childs Park Sch
26
Cem
25
GULFPORT
BLVD
BM
SOUTH
ST
16
19
U.S. 19
275
55
29
Lakeview Sch
Hospital
44
Hoyt Park
City Hall
WT
32
26TH
AVE
SOUTH
17
58TH
55TH
33
Gulfport
43D
46TH
52D
DISSTON
ST PETERSBURG
St Josephs Sch
26TH
19TH
16TH
22D
29TH
9
6
34
Clam
Bayou
35
36
15
11
30TH
AVE
SOUTH
31ST
4
31ST
AVE
SOUTH
3
PO
Municipal Pier
CLAMS
AREA
GULFPORT
TOWN
BOUNDARY
BOUNDARY
4
8
10
37TH
38TH
AVE
SOUTH
T 31 S
T 32 S
14
18
21
Broadwater
PINELL
Lake
M
19
Country Club
COUNTRY
FAIR

MAY 10

I 49.89/2:85(15) map A7

PASS-A-GRILLE BEACH QUADRANGLE
FLORIDA
7.5 MINUTE SERIES (TOPOGRAPHIC)

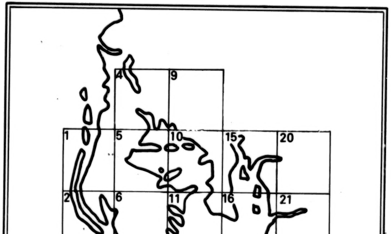

R. 16 E.
290 000 FEET
R. 17 E.
ST. PETERSBURG (P.O.) 1.5 MI.
82°37'30"
27°45'
Bartlett Park
687
30
LAKEVIEW
BLVD
Lassing Park
Salt Creek
SOUTH
AVE
ST
9TH
7TH
4TH
BAY
Spoil Area
31
Big Bayou
34TH AVE SOUTH
38TH AVE SOUTH
aggiore
Ac
32
Coquina Key
T 31 S
T 32 S
Lakewood Sch
12
8
5
3
6

MAP A7

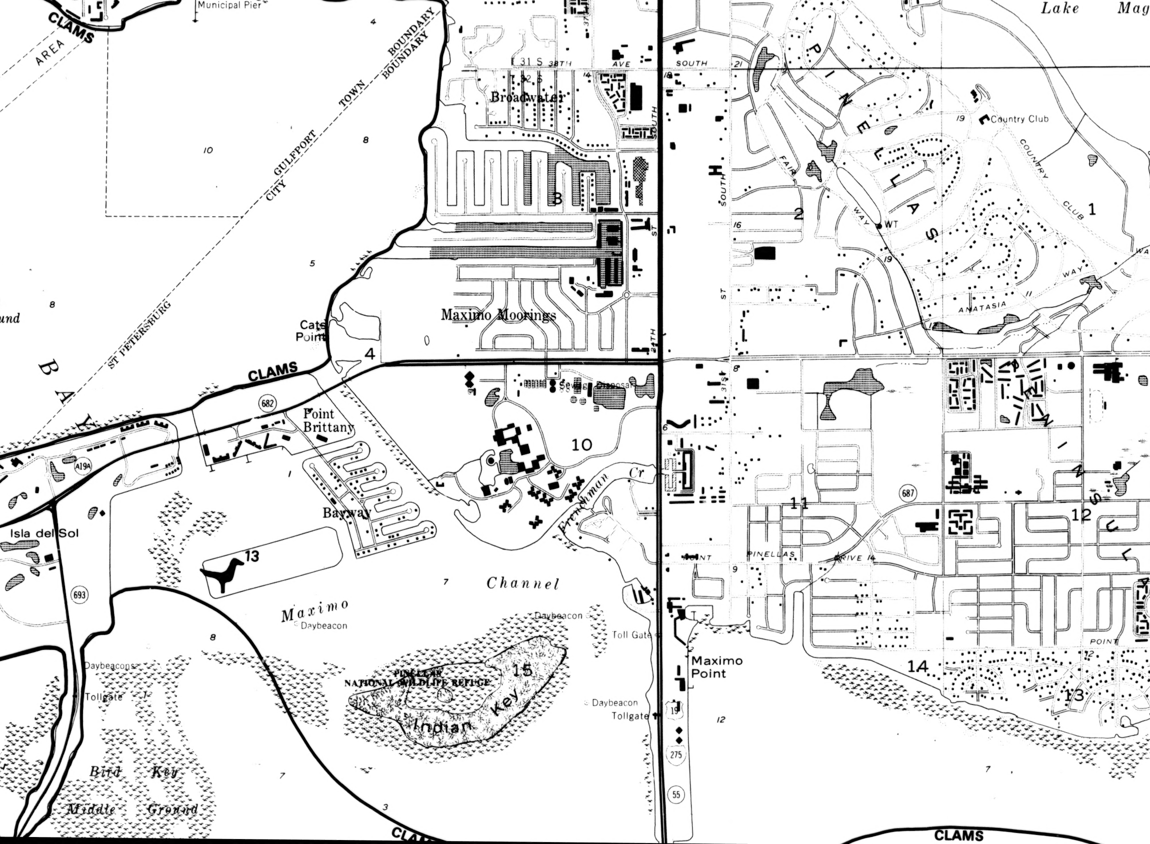
TAMPA BAY ENVIRONMENTAL ATLAS

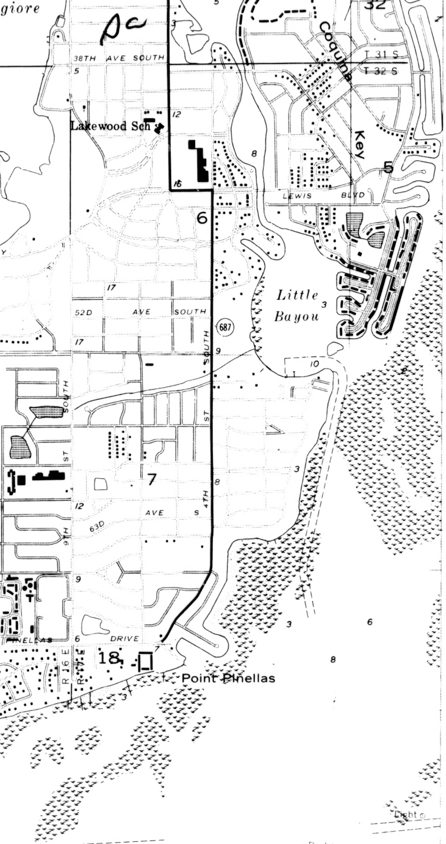
BIOLOGICAL RESOURCES

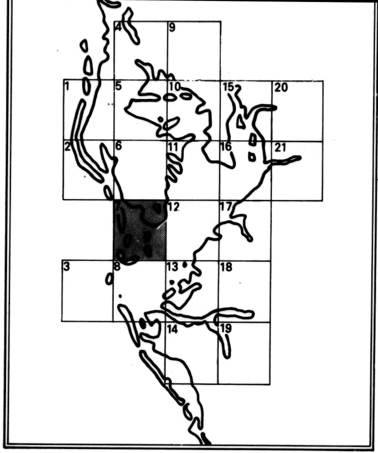
PASS-A-GRILLE


4
9
1
5
10
15
20
2
6
11
16
21

Daybeacons
BOCA CIEGA
9
CLAMS
Bahia Shores
8
ST PETERSBURG BEACH CITY BDY
CABLE
6
Daybeacon
St Petersburg Beach
15
Boca Ciega Isle
Daybeacons
Gulfport
Middle Grov
A19A
75TH AVE
3
12
Daybeacon
4
LONG
GULF
McPherson Bayou
16
12
BLVD
EAST
MARITANA DR
Daybeacons
6
13
Little McPherson Bayou
5
14
KEY
Mud Key
Pass-a-Grille
Sunshine Sch
BM 4
18
21 ST
Daybeacons
31
CLAMS
8
O
GULF
Daybeacons


Municipal Pier
CLAMS
AREA
BOUNDARY
BOUNDARY
TOWN
GULFPORT
CITY
ST PETERSBURG
BAY
T 31 S
T 32 S
38TH
AVE
SOUTH
Broadwater
SOUTH
Lake
Mag
PINELLAS
Country Club
COUNTRY
CLUB
WAY
FAIR
WAY
WT
SOUTH
ST
ANATASIA
WAY
Maximo Moorings
34TH
ST
Cats Point
CLAMS
682
Point Brittany
Sewage Disposal
31ST
10
PINELLAS
PENINSULA
A19A
Isla del Sol
Bayway
Frenchman Cr
687
11
12
POINT
PINELLAS
DRIVE
13
Channel
Maximo
Daybeacon
693
Daybeacon
Toll Gate
Maximo Point
Daybeacons
Tollgate
PINELLAS NATIONAL WILDLIFE REFUGE
15
Indian Key
Daybeacon
Tollgate
19
275
55
Bird Key
Middle Ground
14
POINT
13
CLAMS
CLAMS
und
1
2
3
4
5
7
8
9
10
12
14
16
18
19
21


giore
Pc
32
38TH AVE SOUTH
T 31 S
T 32 S
Coquina Key
Lakewood Sch
5
LEWIS BLVD
6
Little Bayou
52D AVE SOUTH
687
4TH ST SOUTH
9TH ST SOUTH
7
63D AVE S
PINELLAS DRIVE
18
R 16 E
R 17 E
Point Pinellas
Light


1
2
3
4
5
6
8
9
10
11
12
13
14
15
16
17
18
19
20
21

Scale 1:24,000

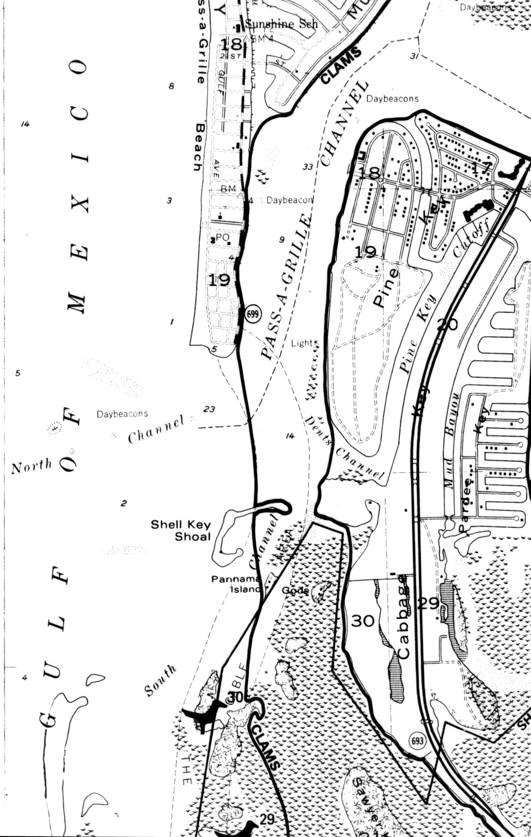
1984

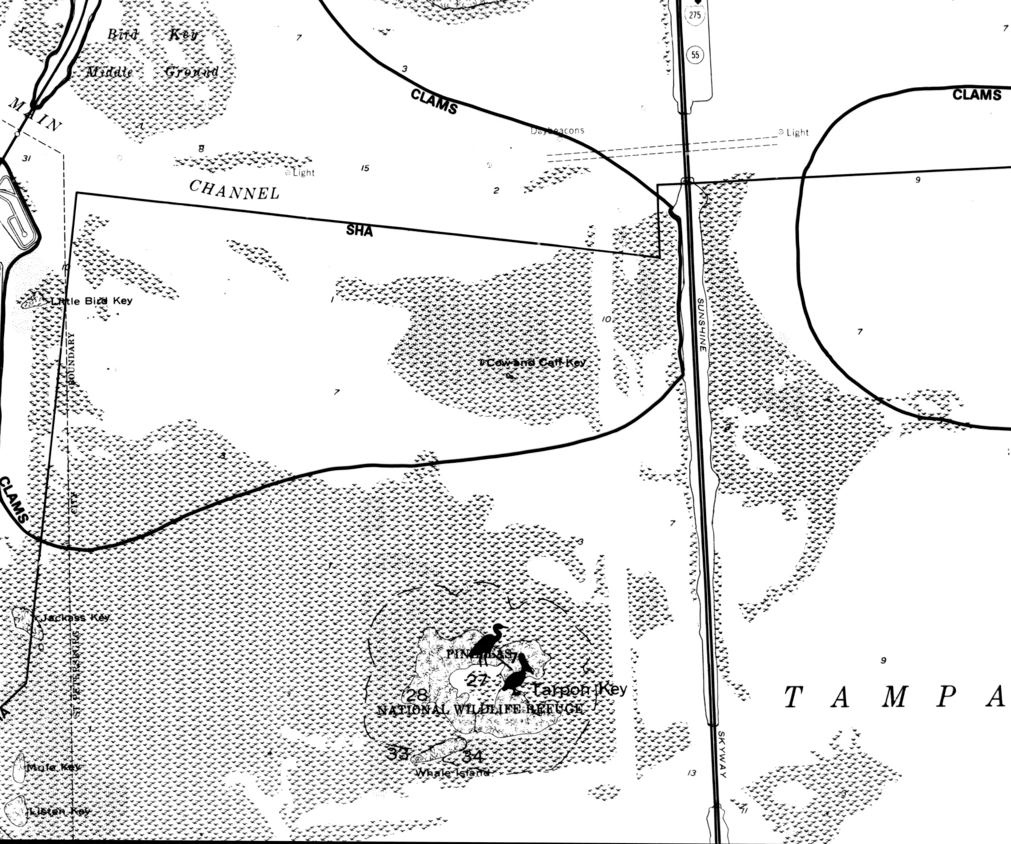
TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

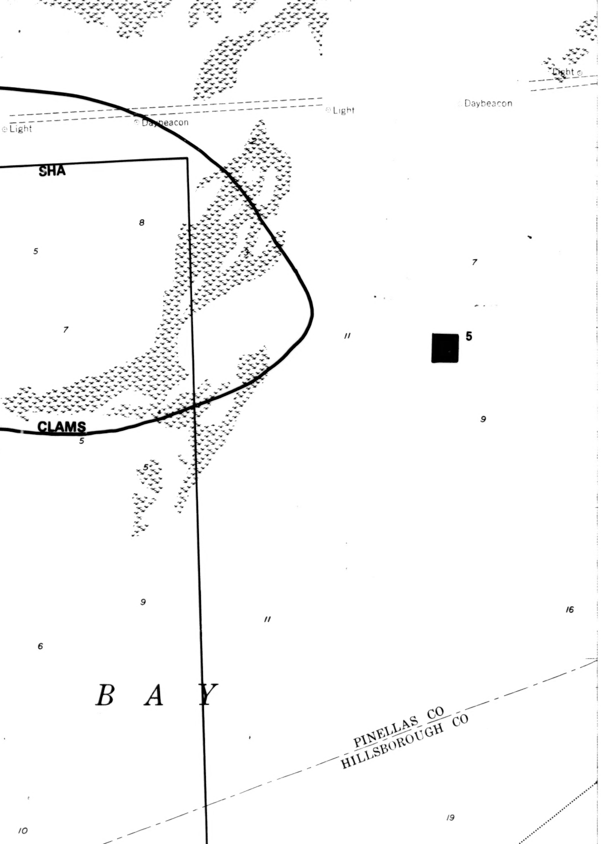
Produced by U.S. Fish and Wildlife Service

Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from


GULF OF MEXICO
Pass-a-Grille Beach
Sunshine Sch
BM 4
21 ST
GULF
AVE
BM
PO
18
19
CLAMS
CHANNEL
PASS-A-GRILLE
Daybeacons
Daybeacon
Light
699
Pine Key
Pine Key
Key
Cutoff
17
18
19
20
Mud Bayou
Pardee Key
Dents Channel
North Channel
Shell Key Shoal
Channel
AREA
Pannama Island
Gods
Cabbage Key
29
30
693
South
CABLE
THE
CLAMS
Sawyer
30
29
14
8
3
1
5
23
2
4
33
31
9
14
4
5


Bird Key
Middle Ground
MAIN
CHANNEL
SHA
CLAMS
CLAMS
CLAMS
275
55
Daybeacons
Light
Light
Little Bird Key
Cow and Calf Key
SUNSHINE
SKYWAY
ST PETERSBURG
CITY
BOUNDARY
Jackass Key
Mule Key
Listen Key
PINELLAS
NATIONAL WILDLIFE REFUGE
27
28
33
34
Tarpon Key
Whale Island
T A M P A


Light
Daybeacon
Light
Daybeacon
Light
SHA
CLAMS
8
5
7
11
7
5
9
5
9
11
16
6
10
19
B A Y
PINELLAS CO
HILLSBOROUGH CO

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There are no maps A19, A20, A21 due to a lack of data.

LEGEND

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

SHA	Shellfish Harvest Approved
SHCA	Shellfish Harvest Conditionally Approved

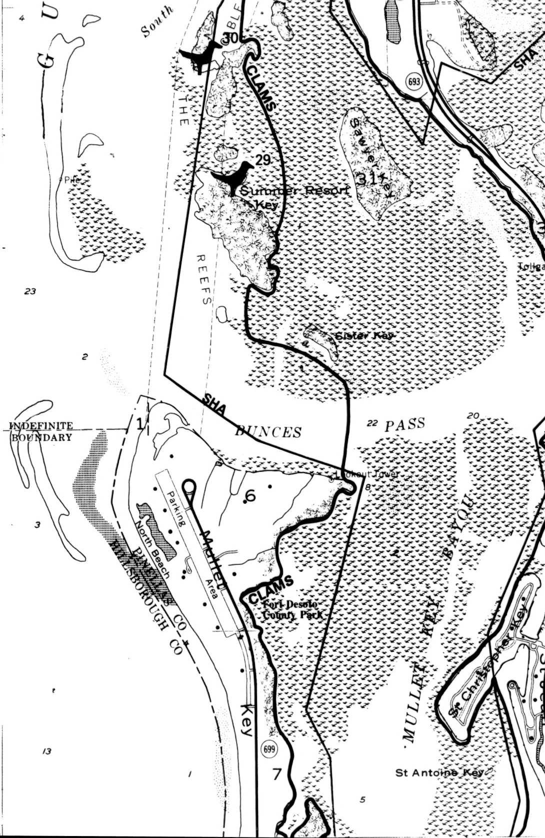
NOTE: Due to Dept. of Natural Resources (DNR) water quality standards all other estuarine areas are prohibited or unclassified as to shellfish harvest status and are officially unapproved. For further info. on status of harvest areas contact DNR - Shellfish Environmental Assessment Section.

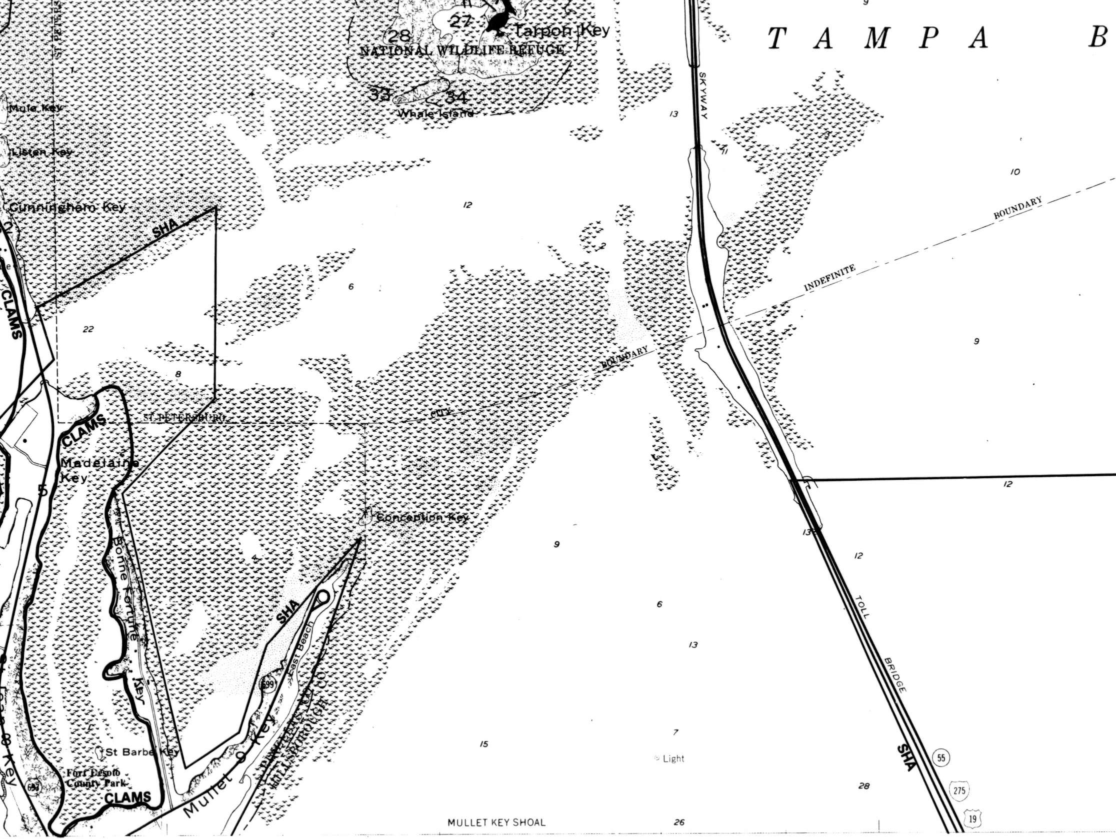
Oys-1	Public Oyster Bed
Oys-2	Private Oyster Bed (Lease)
CLAMS	Clam Bed

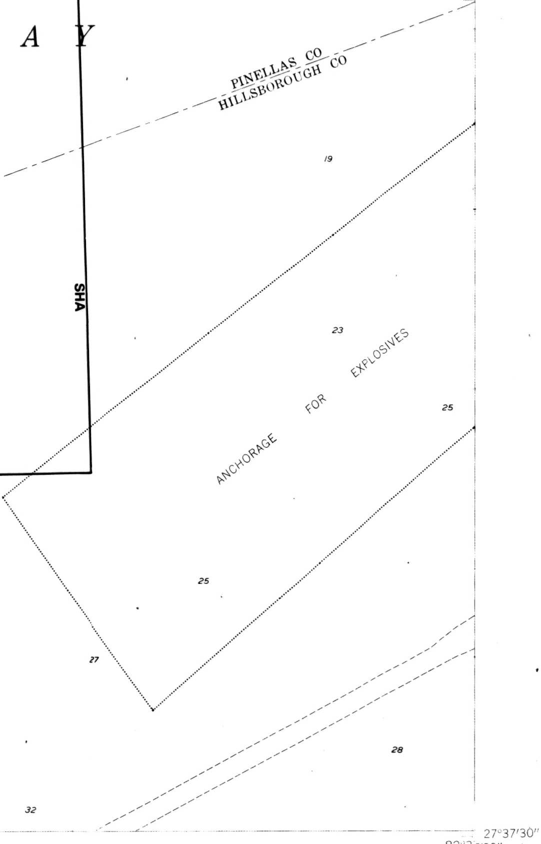
FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

SPECIES #	FINFISH	SPAWNING		NURSERY AREA[1]	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS					
	CATEGORY Common Name	LOCATION[1]	SEASON J M M J S N		Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water
	ESTUARINE DEPENDENT FISHES																	

MIGRATION TYPE²


South
G
U
4
Pile
23
2
3
13
1
THE
REEFS
30
CLAMS
29
Summer Resort Key
Sawyer Key
31
693
SHA
Sister Key
INDEFINITE BOUNDARY
1
SHA
BUNCES
22 PASS
20
Lookout Tower
8
6
Parking Area
North Beach
Mullet Key
PINELLAS CO
HILLSBOROUGH CO
CLAMS
Fort Desoto County Park
BAYOU
MULLET KEY
St Christopher Key
699
7
St Antoine Key
5


T A M P A B
Tarpon Key
27
28
NATIONAL WILDLIFE REFUGE
33
34
Whale Island
Mule Key
Listen Key
Cunningham Key
SKYWAY
SHA
CLAMS
INDEFINITE
BOUNDARY
CITY
BOUNDARY
ST PETERSBURG
Madelaine Key
Conception Key
Bonne Fortune Key
East Beach
Mullet Key
PINELLAS CO
HILLSBOROUGH CO
699
St Barbe Key
Fort De Soto County Park
693
TOLL
BRIDGE
Light
MULLET KEY SHOAL
55
275
19
13
11
10
12
2
6
22
8
9
13
12
15
7
28
26


A Y
PINELLAS CO
HILLSBOROUGH CO
19
SHA
23
ANCHORAGE FOR EXPLOSIVES
25
25
27
28
32
27°37′30″

FINFISH SPAWNING, NURSERY AND HARVEST AREAS

(Recreational Hook and Line Fishing)

SPECIES #	FINFISH CATEGORY Common Name	SPAWNING													NURSERY AREA[1]	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS						MIGRATION TYPE[2]
		LOCATION[1]	SEASON													Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
			J		M		M		J		S		N																	
	ESTUARINE DEPENDENT FISHES																													
1	Red Drum	C	■	■							■	■	■	■	E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E			■	■	■	■	■	■	■	■			E	●	●	●					E	●	●					2
3	Snook	C					■	■	■						E	●	●	●					E	●	●					2
4	Sheepshead	C			■	■									C	●							C-E			●		●		1
5	Southern Flounder	C									■	■	■	■	C-E	●			●				C-E	●		●				2
6	Florida Pompano	CS				■	■	■	■	■	■	■			C-E				●				C-E			●			●	3
7	Striped Mullet	CS	■									■	■	■	E	●	●	●					E	●	●	●				3
8	Gulf Menhaden	C	■	■	■								■	■	E	●	●	●					C-E	●		●			●	3
9	Spanish Sardine	C						■	■	■	■				E	●	●	●					C-E	●		●			●	3
10	Black Drum	C	■	■	■	■	■						■	■	E	●	●	●					E	●	●	●				1
	REEF FISHES																													
11	Red Grouper	CS			■	■	■								CS-C	●				●	●		CS				●	●		2
12	Jewfish	CS						■	■						CS-C	●				●	●		CS-C				●	●		2
13	Gag Grouper	CS	■	■	■	■								■	CS-C	●				●	●		CS-C				●	●		2
14	Scamp	CS			■	■									CS	●				●	●		CS				●	●		2
15	Red Snapper	CS						■	■	■	■				CS-C	●				●	●		CS-C				●	●		2
16	Mangrove Snapper	CS				■	■	■	■						C-E	●	●						C-E				●	●		2
	COASTAL PELAGIC FISHES																													
17	King Mackerel	OCS					■	■	■	■					CS							●	CS-C				●	●	●	4
18	Spanish Mackerel	CS					■	■	■	■					CS							●	CS-C				●	●	●	4

[1] KEY:

E — Estuarine
C — Coastal
CS — Continental Shelf
OCS — Outer Continental Shelf

[2] MIGRATION TYPE:

1 — Residentially Restricted
2 — Random Residential Range
3 — Restricted Migration
4 — Extensive Migration

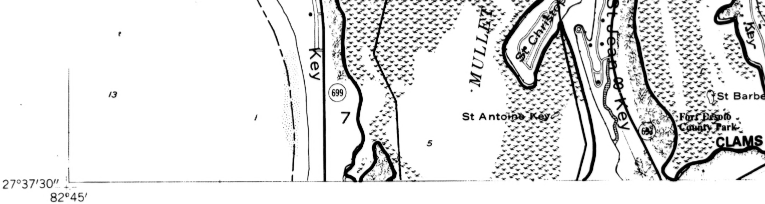
COLONIAL BIRD NESTING SITE *

Number appearing with symbol indicates colony sites. Colony sites and species - composition data are included in the narrative.

Shorebird

Wading Bird

Brown Pelican


Key
699
7
13
5
MULLET
St Christopher
St Jean Key
St Antoine Key
St Barbe
Fort Desoto County Park
CLAMS
Key
27°37′30″
82°45′

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Dept. of Natural Resources, 1982.

PUBLIC & PRIVATE OYSTER BEDS: Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida, McNulty, Lindall and Sykes, 1972.

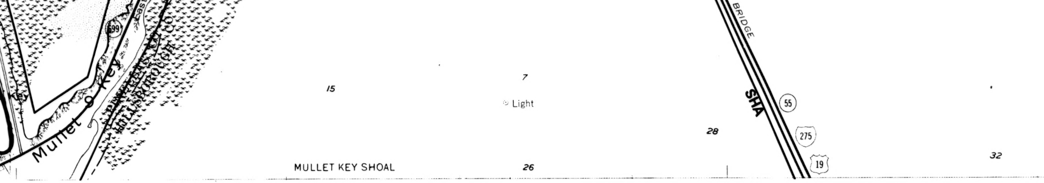
CLAMS: Personal Communication, Discussion of Distribution Clams in Tampa Bay and Adjacent Brackish Waters, Mr. L. Tracy Three T's Clam Company, 1983 Mike Sprague, Draft Maps, Department of Natural Resources, 1984

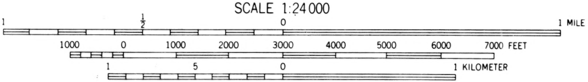
SCALLOP BEDS: Personal Communication, Mr Bill Lyons Dept. of Natural Resources, Marine Research Laboratory, 1982

FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fishing Grounds, Moe, 1970.

BIRD NESTING SITES: Florida Atlas of Breeding Sites for Herons and Their Allies: 1976-78, Nesbitt, S.A., Ogden, J.C., Kale II, H.W., et.al. U.S. Fish and Wildlife Service, 1982. Personal Communication, Maps and Data, Dr H.W. Kale II, Florida Audubon Society, 1982

MICROCOPY RESOLUTION TEST
NBS - 1010a
(ANSI and ISO TEST CHAR


Mullet Key
699
PINELLAS CO
HILLSBOROUGH CO
15
7
Light
28
26
32
MULLET KEY SHOAL
BRIDGE
SHA
55
275
19


SCALE 1:24 000
1
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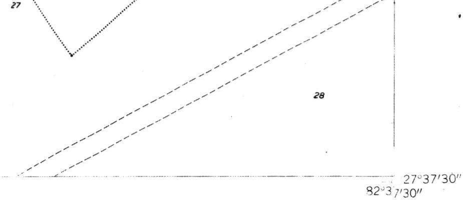
0
1 MILE
1000
0
1000
2000
3000
4000
5000
6000
7000 FEET
1
5
0
1 KILOMETER

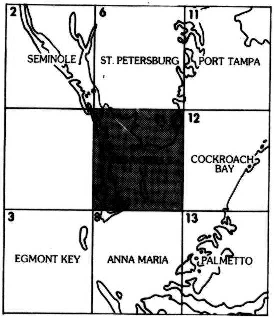
MANATEE HABITAT: Boaters guide to Manatees, the gentle giants, Florida Marine Patrol, 1980.

SEAGRASS BEDS: Tampa Bay Seagrass Maps, 1:10,000 and 1:24,000 Scales, Mangrove Systems, Inc. 1980
National Wetlands Inventory Maps, 1:24,000 Scale, U.S. Fish and Wildlife Service, 1983.

ARTIFICAL REEFS: Computer Printout of Florida Artifical Reefs, U.S. Army Corps of Engineers, 1981. Recreational Use Reefs in Florida: Artifical and Natural, Florida Sea Grant Program, 1979.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE


27
28
27°37′30″
82°37′30″


2
SEMINOLE
6
ST. PETERSBURG
11
PORT TAMPA
12
COCKROACH BAY
3
EGMONT KEY
8
ANNA MARIA
13
PALMETTO

COLONIAL BIRD NESTING SITE*

Number appearing with symbol indicates colony sites. Colony sites and species - composition data are included in the narrative.

Shorebird

Wading Bird

Brown Pelican

WEST INDIAN MANATEE HABITAT

STATE MANATEE SANCTUARY

▨ **SEAGRASS BEDS**

■ **ARTIFICAL REEF***

(Permitted by Florida Dept. of Environmental Regulation)

Numbers next to reefs refer to composition data in narrative

**Symbols appearing with numbers are described more fully in the narrative.*

MICROFILMED FROM
BEST AVAILABLE COPY

MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)

2.5
2.8
2.2
4.5
3.2
2.0

NEGATIVE RESOLUTION TEST TARGET
Made in the USA by Edmund Scientific Co., N.J.

NEGATIVE RESOLUTION TEST TARGET
Made in the USA by Edmund Scientific Co., N.J.